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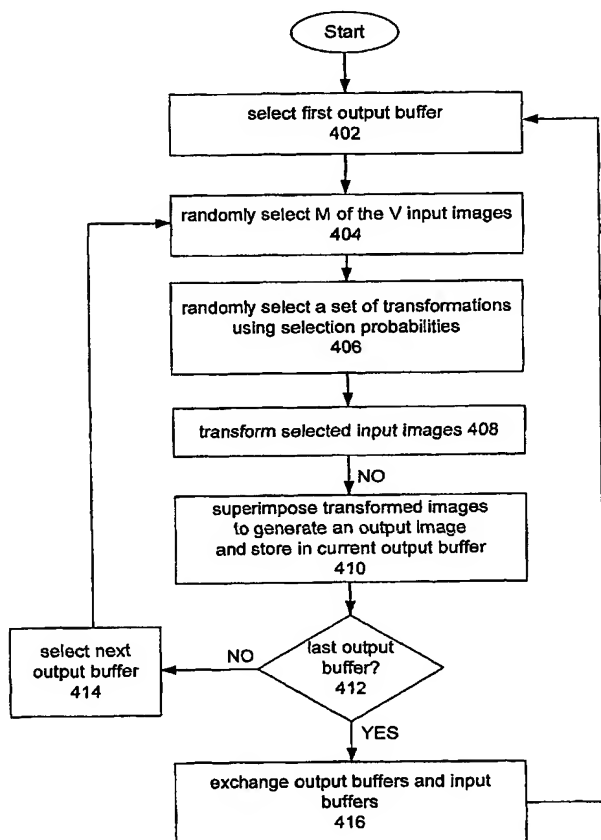
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(54) Title: **FRACTAL IMAGE DATA AND IMAGE GENERATOR**



(57) Abstract: A fractal generation process, including: (i) randomly selecting images from a set of  $V > 1$  input images; (ii) selecting transformation functions from a set of transformation functions; (iii) generating transformed images by applying the selected transformation functions to the selected images; and (iv) generating an output image by combining the transformed images. Steps (i) to (iv) can be repeated to generate a set of  $V$  output images, and the entire sequence can be repeated using the set of  $V$  output images as a new set of  $V$  input images to generate a new set of output images. After a sufficient number of iterations, the new set of output images is substantially independent of the first set of input images used in the process. The resulting images represent  $V$ -variable fractals.

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